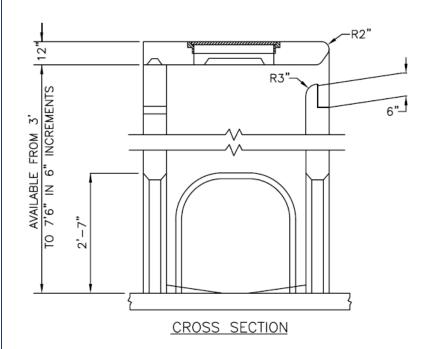
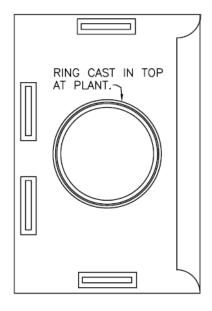


CITY OF ARANSAS PASS
STANDARDS MANUAL DETAILS

NOTES:

- PRE CAST TOP MAY BE PLACED ON BED OF MORTAR OR LEFT DRY FOR FUTURE REMOVAL.
- 2. ALL REINFORCING TO BE #4 ON 12" CENTERS EACH WAY
- 6 CEMENT SACKS 4000 P.S.I. MINIMUM APPROX. WEIGHT 1300# PER VERTICAL FOOT. TYPE "A" TOP APPROX. 1500#.
- FOUR LIFT HOLES IN BOX WALL FOR HANDLING.
- 5. INLET SHALL BE PLACED ON 6-INCH SAND BEDDING. SUBGRADE SHALL BE COMPACTED TO 95% DENSITY





TOP VIEW PRECAST LID

PRECAST TYPE "A" INLET DETAIL

NOT TO SCALE



CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

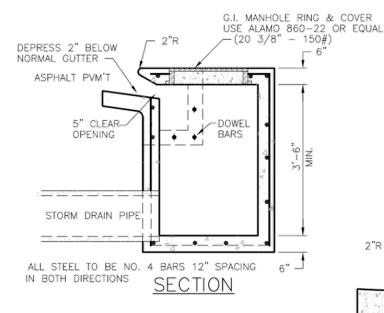
Aransas Pass, TX 78336

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Standards Manual

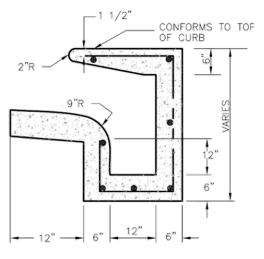
Precast Type "A" Inlet Detail

| Standard Detail: | DR-01 |
|------------------|---------|
| Date Modified: | 7/21/15 |



NOTES:

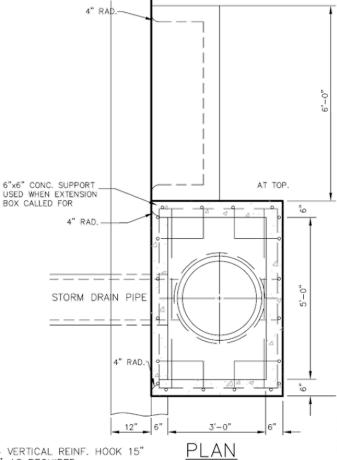
- 1. INLET SHALL BE PLACED ON 6-INCH SAND BEDDING.
- 2. SUBGRADE SHALL BE COMPACTED TO 95% DENSITY



ALL STEEL TO BE NO. 4 BARS ON 12" SPACING IN BOTH DIRECTIONS.

INLET EXTENSION

NOTE: NOT TO SCALE



SLOPE BOTTOM OF INLET EXTENSION 1/2"/1'-0" TOWARD INLET EXTENSION TO INLET TO BE MADE IN INCREMENTS OF 3'-0" OR 6'-0" ONLY. TRANSITION NORMAL GUTTER TO INLET SLOPE APPROXIMATELY 3'-0".



No. 4 VERTICAL REINF. HOOK 15" OR 6" AS REQUIRED

CITY OF ARANSAS PASS

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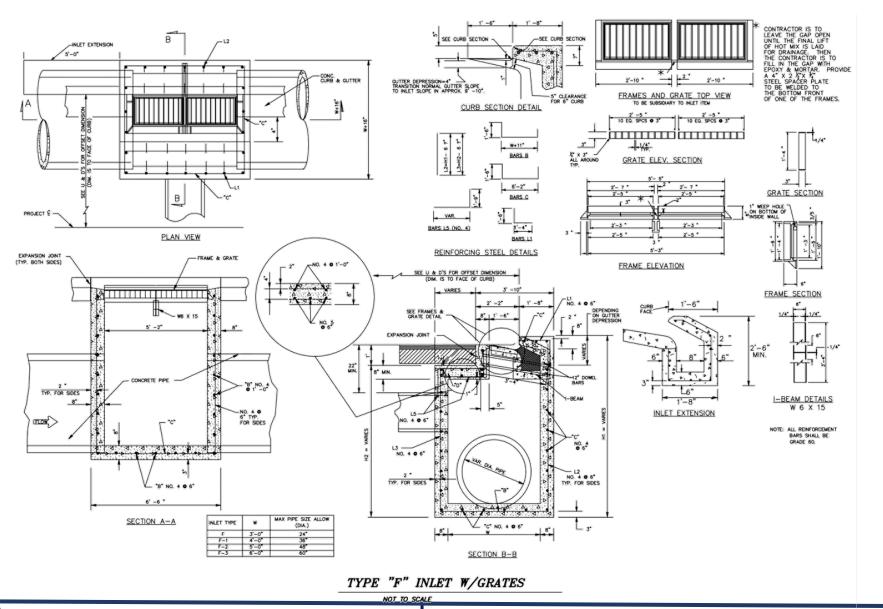
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Standards Manual

Cast-In-Place Type "A" Inlet

Standard Detail: DR-02 7/21/15 **Date Modified:**





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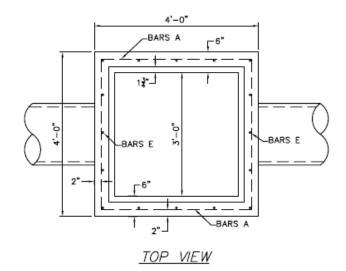
Aransas Pass, TX 78336

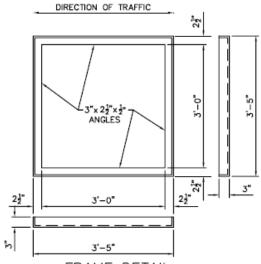
Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual

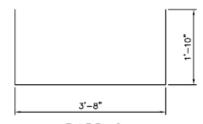
Type "F" Inlet

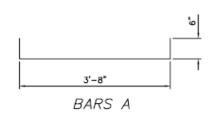
| Standard Detail: | DR-03 |
|------------------|---------|
| Date Modified: | 7/21/15 |

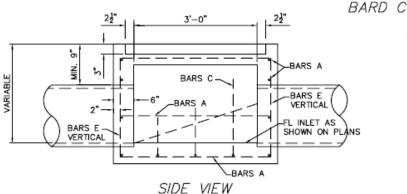




<u>FRAME DETAIL</u>







REINFORCING STEEL DETAILS

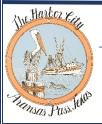
- NOTE: 1. ALL STEEL TO BE No. 4 BARS ON 12" SPACING IN BOTH DIRECTIONS EXCEPT IN TOP SLAB OR MANHOLE.
 - ALL GRATE INLET COVERS SHALL BE PEDESTRIAN SAFE COVERS. OPENINGS SHALL BE NO GREATER THAN 3/8" WIDE.
 - INLET SHALL BE PLACED ON 6-INCH SAND BEDDING.
 SUBGRADE SHALL BE COMPACTED TO 95% DENSITY

TYPE "C" GRATE INLET

NOT TO SCALE

NOTE:

WHERE CALLED FOR, INLET GRATE SHALL HAVE EXPANDED METAL, FOR BICYCLE SAFETY.



CITY OF ARANSAS PASS

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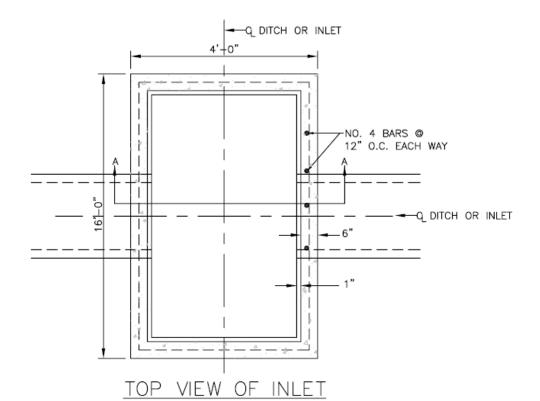
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Standards Manual

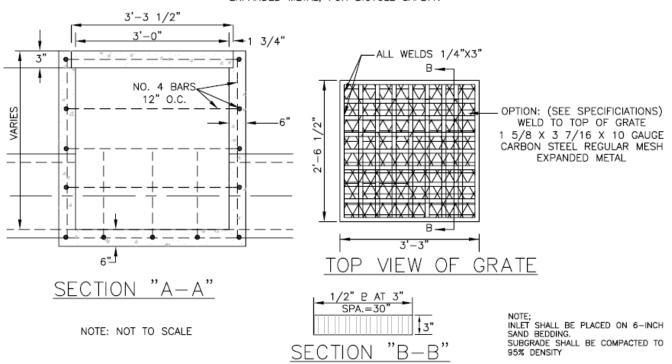
Type "C" Grate Inlet

Standard Detail: DR-04

Date Modified: 7/21/15



NOTE: WHERE CALLED FOR, INLET GRATE SHALL HAVE EXPANDED METAL, FOR BICYCLE SAFETY.





CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

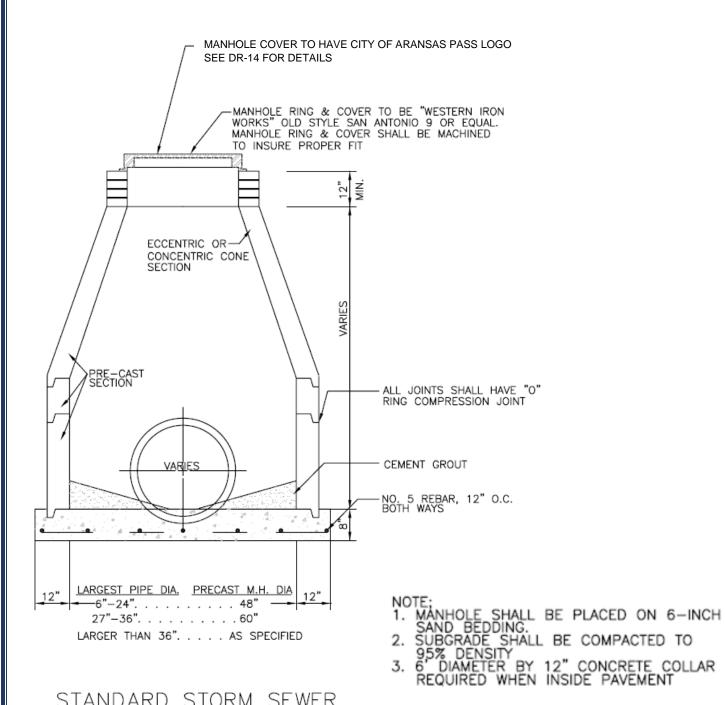
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Standards Manual

Type "C-C" Inlet

| Standard Detail: | DR-05 |
|------------------|---------|
| Date Modified: | 7/21/15 |



STANDARD STORM SEWER

PRE-CAST CONCRETE MANHOLE

The Harbor Kin

Runsas Pass Jehar

CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

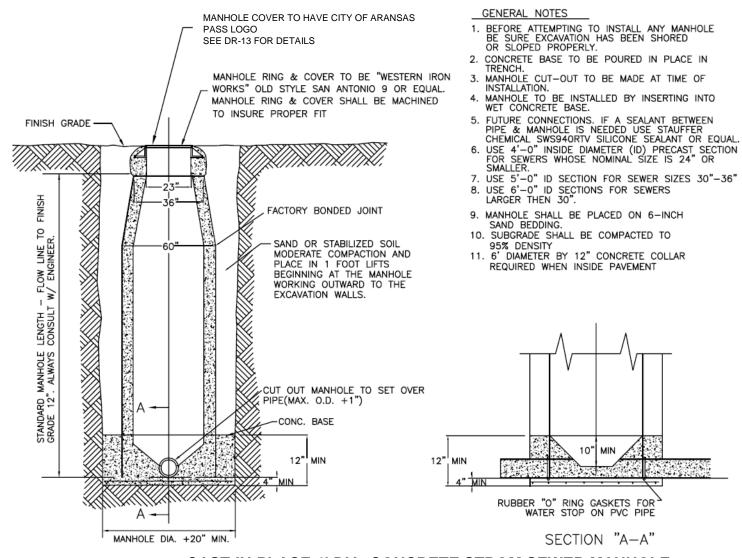
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Standards Manual

Pre-Cast Storm Manhole

| Standard Detail: | DR-06 |
|------------------|---------|
| Date Modified: | 7/21/15 |



CAST-IN-PLACE 4' DIA. CONCRETE STROM SEWER MANHOLE

NOT TO SCALE



CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

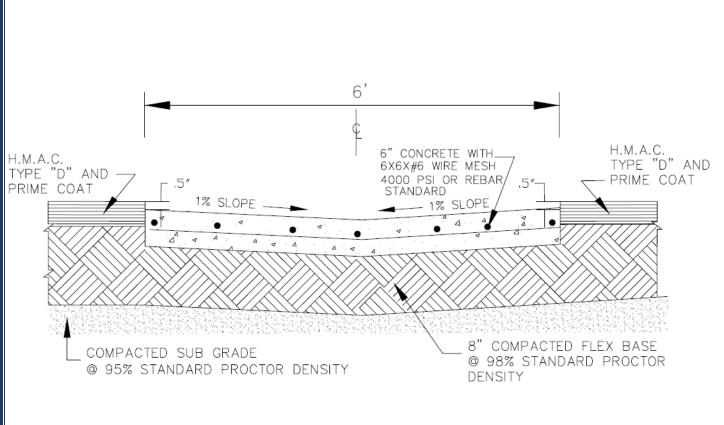
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Standards Manual

Cast-In-Place Storm Sewer Manhole

| Standard Detail: | DR-07 |
|------------------|---------|
| Date Modified: | 7/21/15 |



VALLEY GUTTER

NOTE: NOT TO SCALE



CITY OF ARANSAS PASS

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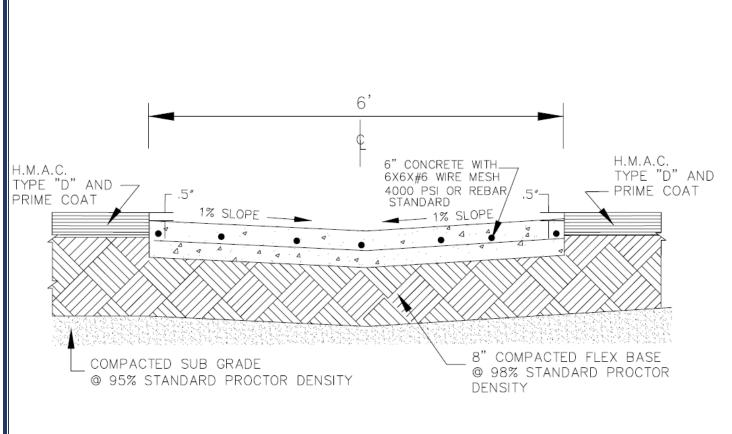
Aransas Pass, TX 78336

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Standards Manual

Storm Trench Bedding and Backfill Details

| Standard Detail: | DR-08 |
|------------------|---------|
| Date Modified: | 7/21/15 |



VALLEY GUTTER

NOTE: NOT TO SCALE



CITY OF ARANSAS PASS

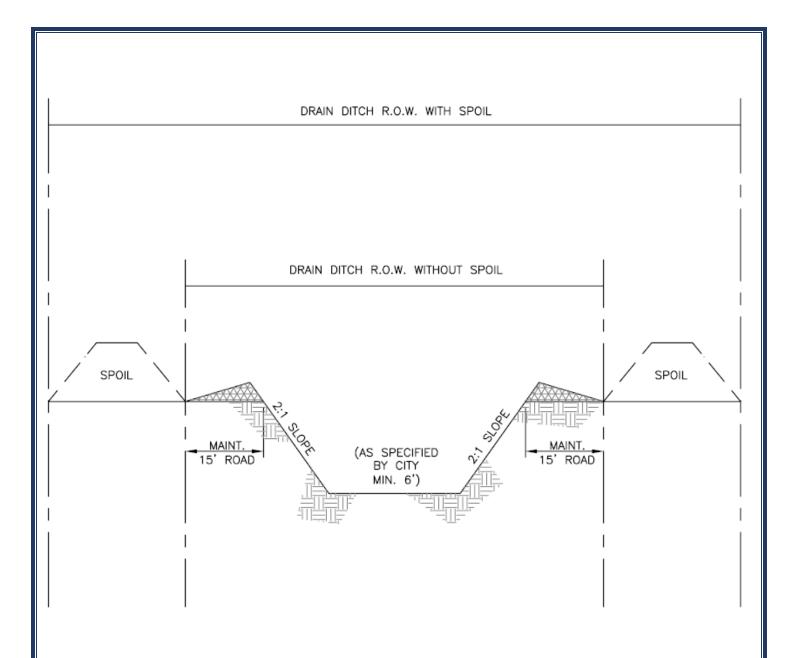
600 w. Cleveland Blvd.

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Standards Manual Valley Gutter Detail

Standard Detail: DR-09
Date Modified: 7/21/15



NOTE: R.O.W. WIDTH WILL VARY, APPROVED WIDTHS SHALL BE SPECIFIED BY GOVERNING ENTITY I.E. CITY, IRRIGATION DISTRICT, DRAINAGE DISTRICT, COUNTY PRECINCT, ETC.



CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

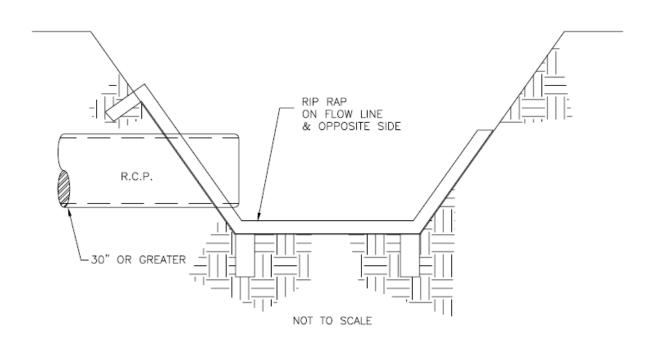
Aransas Pass, TX 78336

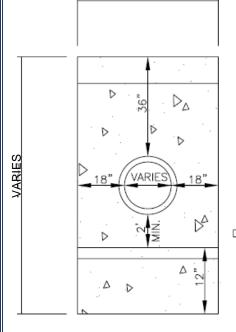
Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual

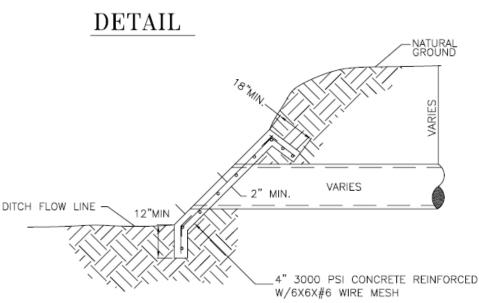
Typical Ditch Cross Section

| Standard Detail: | DR-10 |
|------------------|---------|
| Date Modified: | 7/20/15 |





VARIES



CAST-IN-PLACE CONCRETE RIP RAP

NOT TO SCALE



CITY OF ARANSAS PASS

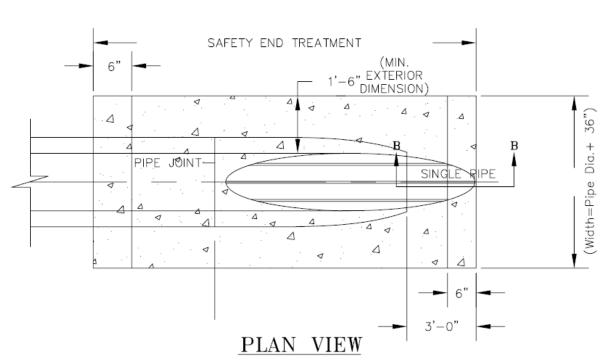
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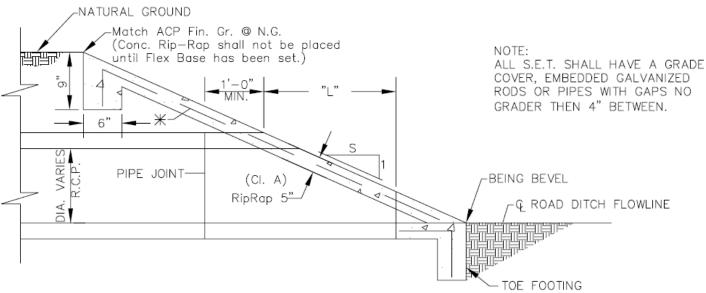
Aransas Pass, TX 78336

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Standards Manual
Cast-In-Place Rip Rap

Standard Detail: DR-11
Date Modified: 7/20/15





SAFETY END TREATMENT

NOT TO SCALE



CITY OF ARANSAS PASS

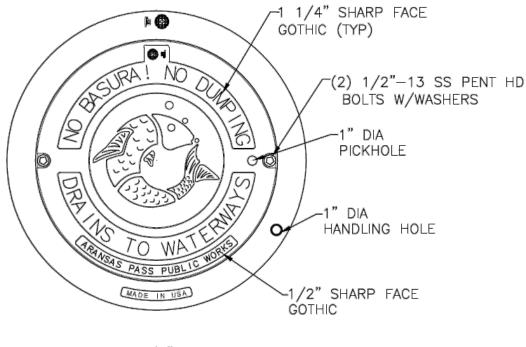
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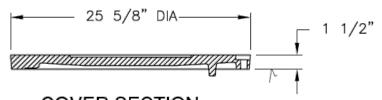
Aransas Pass, TX 78336

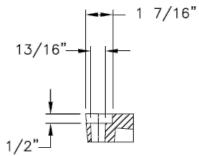
Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual
Safety End Treatment

Standard Detail: DR-12
Date Modified: 7/20/15

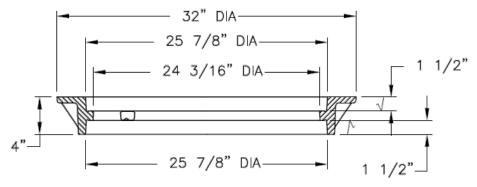












FRAME SECTION

STORM MANHOLE COVER

NOT TO SCALE



CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

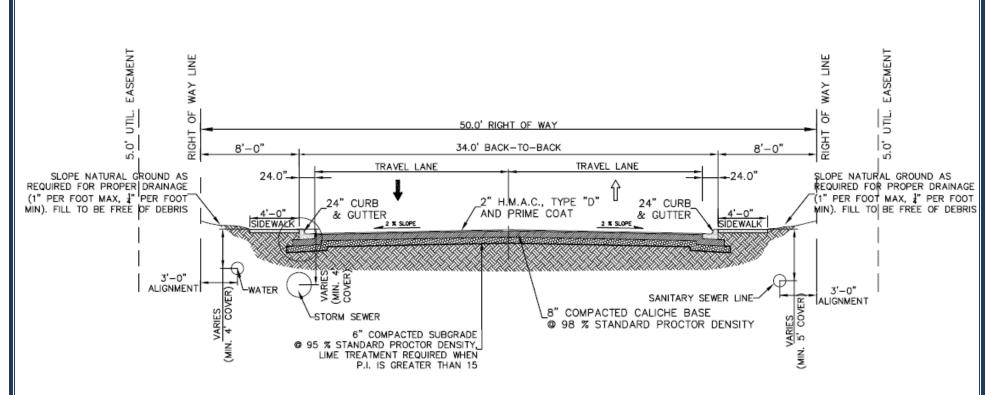
Aransas Pass, TX 78336

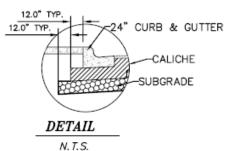
Office: (361) 758-5301 Fax: (361) 758-4854

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Storm Manhole Cover Details

| Standard Detail: | DR-13 |
|------------------|---------|
| Date Modified: | 7/20/15 |





LOCAL 50.0' (W/ 5.0' U.E.)

N.I.S.



CITY OF ARANSAS PASS

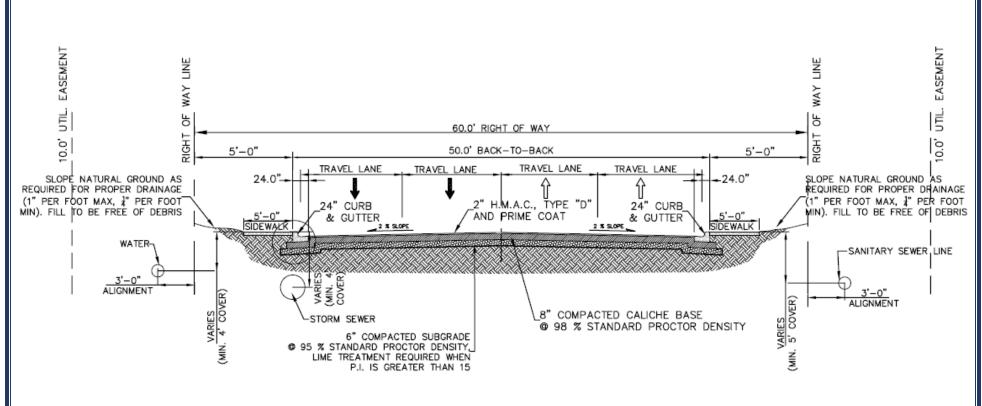
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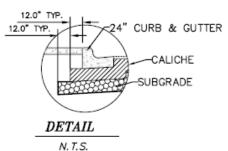
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| Standard Detail: | STR-01 |
|------------------|---------|
| Date Modified: | 7/20/15 |





COLLECTOR 60.0' (W/ 10.0' U.E.)



CITY OF ARANSAS PASS

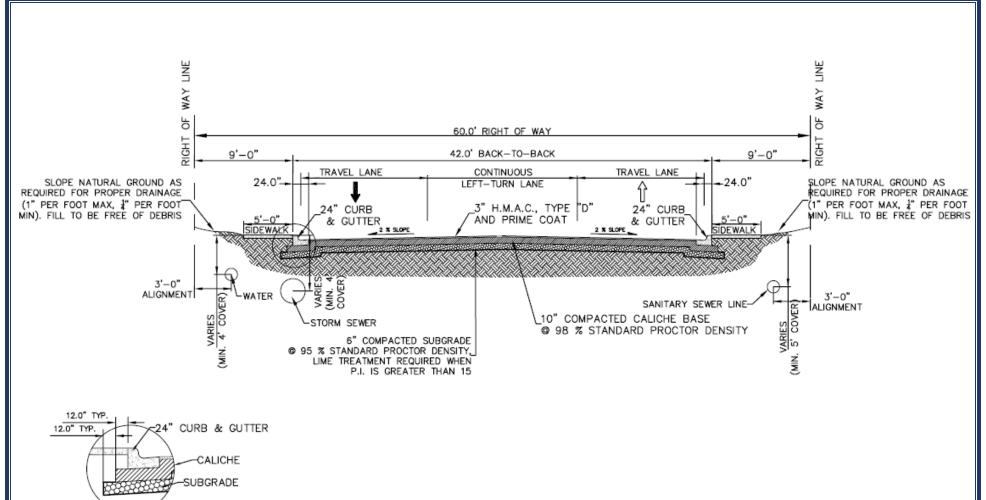
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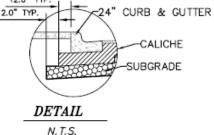
Aransas Pass, TX 78336

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Standards Manual

| Standard Detail: | STR-02 |
|------------------|---------|
| Date Modified: | 7/20/15 |





COMMERCIAL 60.0'

N.T.S.



CITY OF ARANSAS PASS

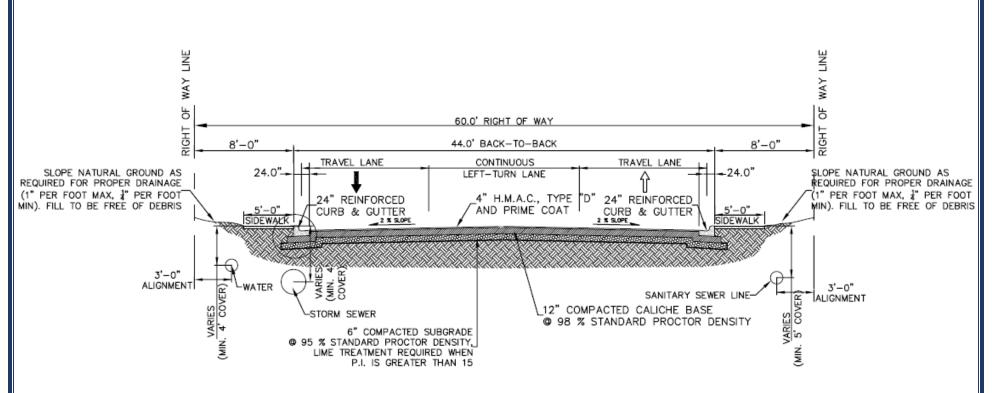
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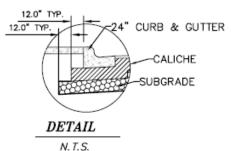
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Standards Manual

| Standard Detail: | STR-03 |
|------------------|---------|
| Date Modified: | 7/20/15 |





INDUSTRIAL 60.0'

N. T. S.



CITY OF ARANSAS PASS

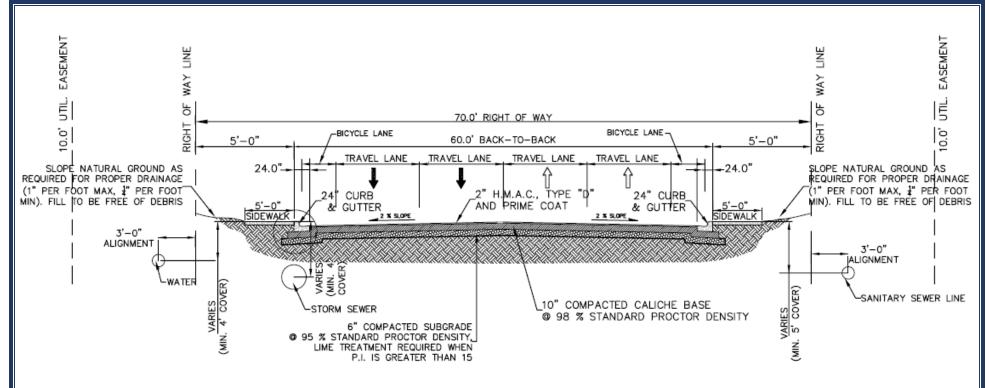
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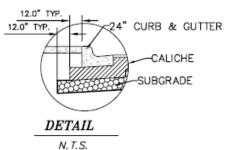
Aransas Pass, TX 78336

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Standards Manual

| Standard Detail: | STR-04 |
|------------------|---------|
| Date Modified: | 7/20/15 |





MINOR ARTERIAL 70.0' (W/ 10' U.E.)

N. T. S.



CITY OF ARANSAS PASS

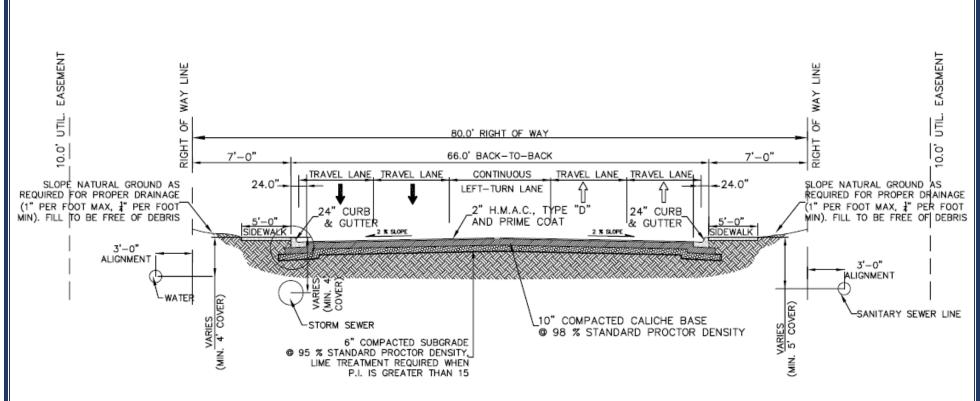
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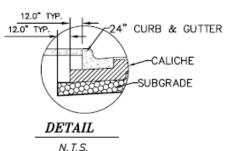
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| | | |

| Standard Detail: | STR-05 |
|------------------|---------|
| Date Modified: | 7/20/15 |





MAJOR ARTERIAL 80.0' (W/ 10' U.E.)

N.T.S.



CITY OF ARANSAS PASS

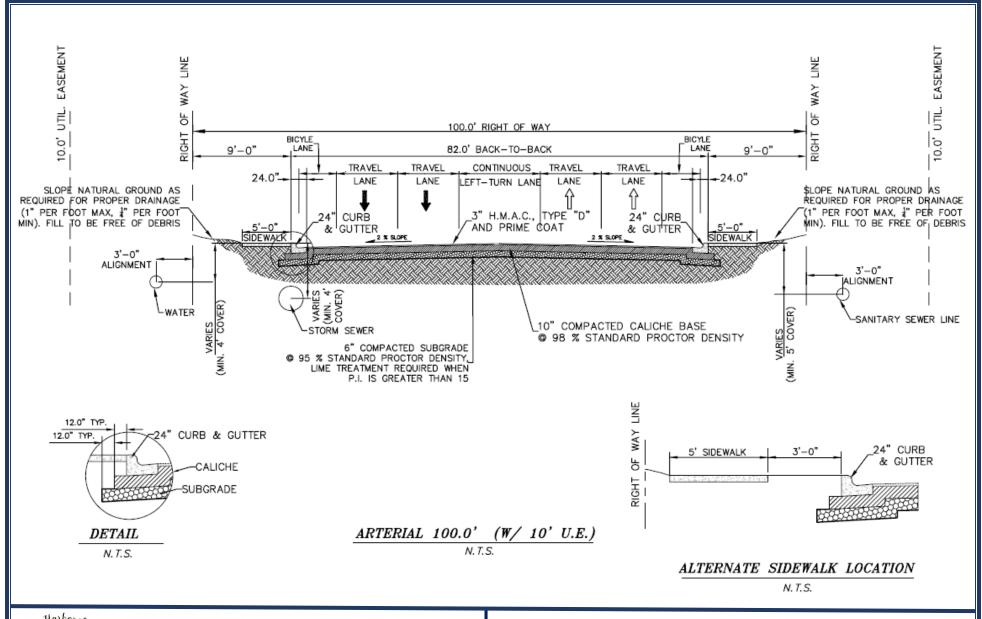
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Standards Manual

| Standard Detail: | STR-06 |
|------------------|---------|
| Date Modified: | 7/20/15 |





CITY OF ARANSAS PASS

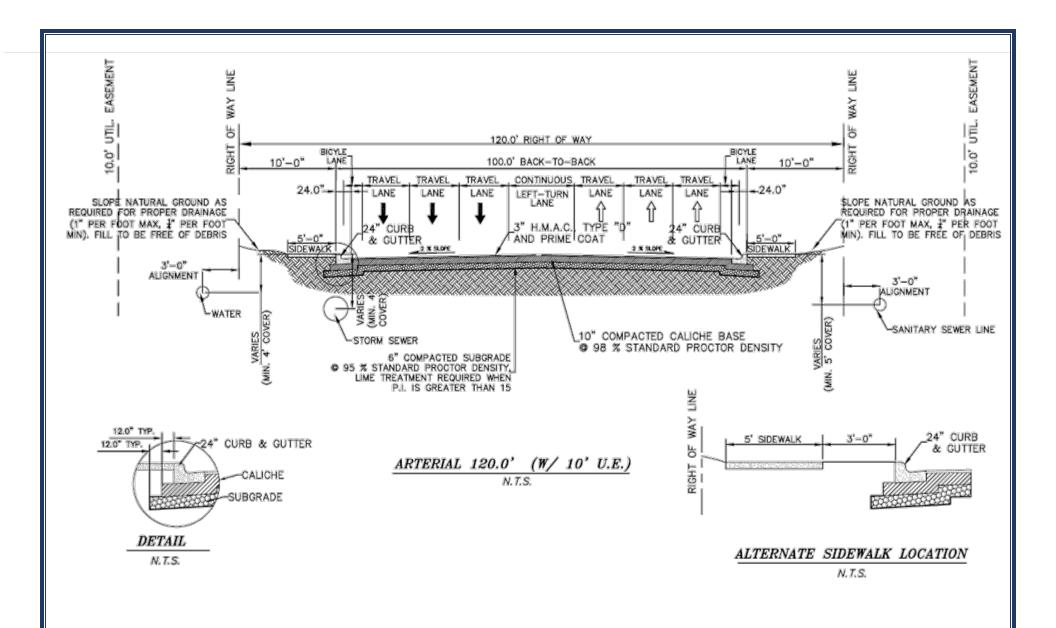
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Standards Manual

| Standard Detail: | STR-07 |
|------------------|---------|
| Date Modified: | 7/20/15 |





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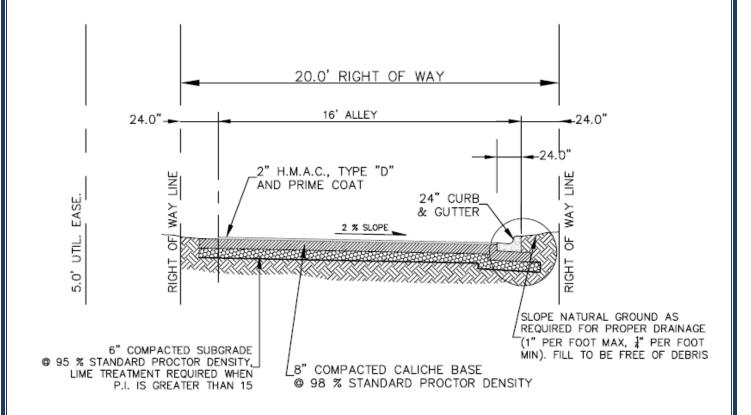
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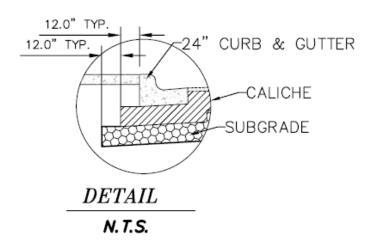
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Standards Manual

| Standard Detail: | STR-08 |
|------------------|---------|
| Date Modified: | 7/20/15 |





ALLEY 20.0' R.O.W. (W/ 5' U.E.)

NOT TO SCALE



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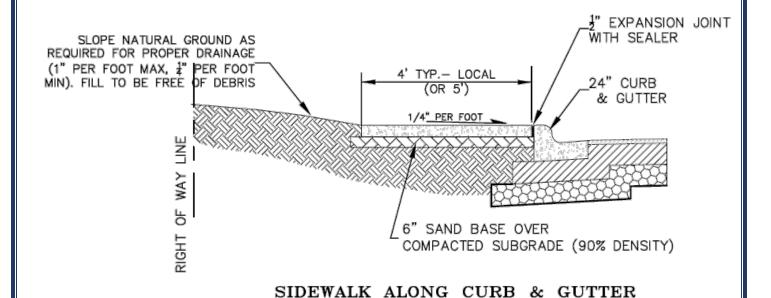
Aransas Pass, TX 78336

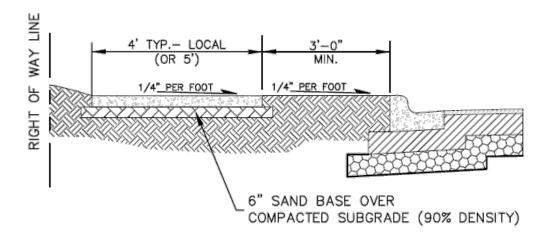
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Standards Manual

16' Alley Paving Cross-Section

| Standard Detail: | STR-09 |
|------------------|---------|
| Date Modified: | 7/20/15 |





GENERAL NOTES:

ALTERNATE SIDEWALK LOCATION

N.T.S.

1. 4" CONCRETE SIDEWALK WITH 6X6X #6 WIRE MESH.

2. EXPANSION JOINTS AT 70' SPACING

& AT ABUTTING STRUCTURES.

 ALTERNATE LOCATION APPROVED ONLY WHEN UTILITIES ARE NOT UNDER THE SIDEWALK. N.T.S.

TYPICAL SIDEWALK LOCATIONS

NOT TO SCALE



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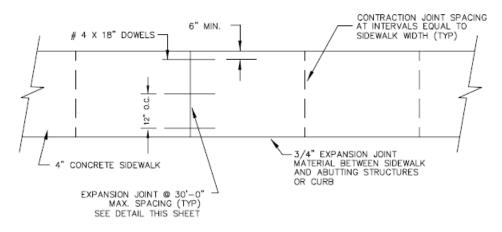
Aransas Pass, TX 78336

Office: (361) 758-5301 Fax: (361) 758-4854

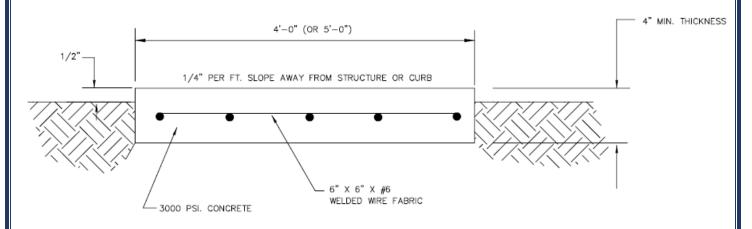
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Typical Sidewalk Detail

| Standard Detail: | STR-10 |
|------------------|---------|
| Date Modified: | 7/20/15 |



SIDEWALK PLAN



SIDEWALK SECTION

TYPICAL SIDEWALK DETIAL NOT TO SCALE



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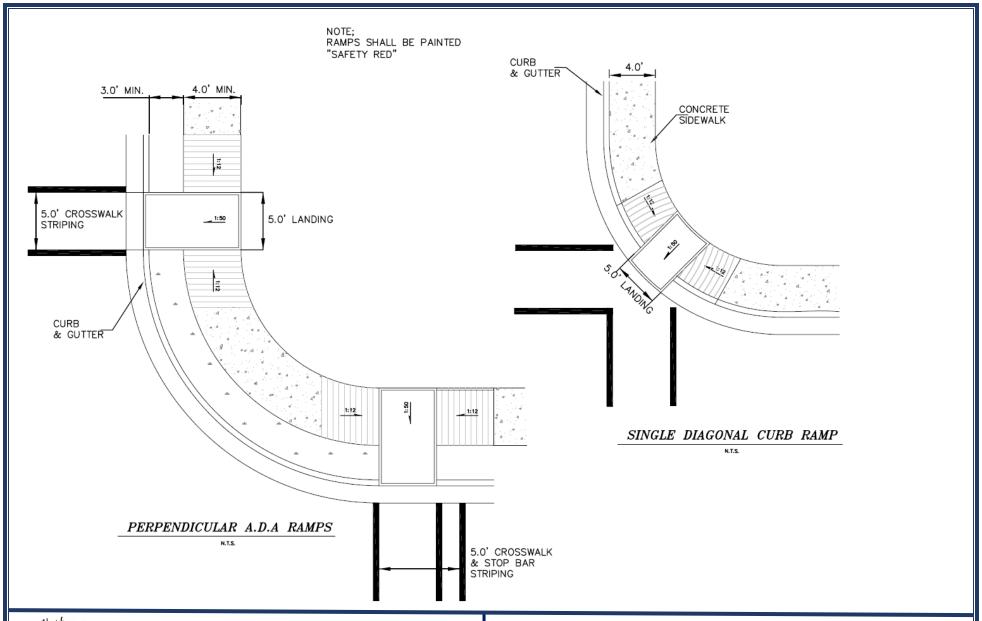
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Standards Manual

Typical Sidewalk Detail

| Standard Detail: | STR-11 |
|------------------|---------|
| Date Modified: | 7/20/15 |





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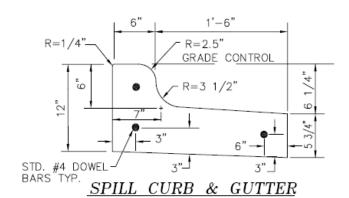
Aransas Pass, TX 78336

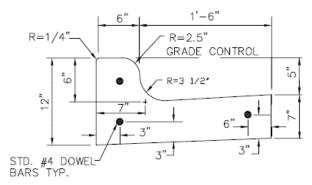
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Standards Manual

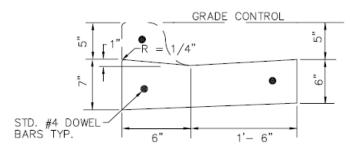
ADA Ramp Detail

| Standard Detail: | STR-12 |
|------------------|---------|
| Date Modified: | 6/24/15 |





CATCH CURB & GUTTER



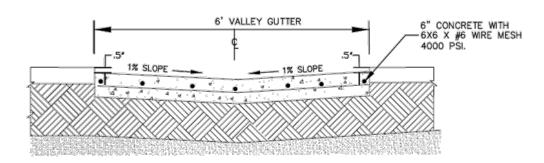
LAY-DOWN CURB & GUTTER

NOTES:

- I. I/2" PREFORMED EXPANSION JOINTS SHALL BE PLACED ON 70' CENTERS. DUMMY JOINTS SHALL BE PLACED AT IO' SPACING, CENTERED FROM EACH EXPANSION JOINT.
- TACK COAT SHALL BE APPLIED TO ANY SURFACE OF CONCRETE IN CONTACT WITH ASPHALT.
- 3. 3000 PSI CONCRETE SHALL BE USED.

CURB & GUTTER DETAILS

N. T. S.



VALLEY GUTTER DETAIL

N.T.S.

NOTES:

- I. 1/2" PREFORMED EXPANSION JOINTS SHALL BE PLACED ON 70' CENTERS. DUMMY JOINTS SHALL BE PLACED AT 10' SPACING, CENTERED FROM EACH EXPANSION JOINT.
- TACK COAT SHALL BE APPLIED TO ANY SURFACE OF CONCRETE IN CONTACT WITH ASPHALT.
- 3. 4000 PSI CONCRETE SHALL BE USED.



CITY OF ARANSAS PASS

600 w. Cleveland Blvd.

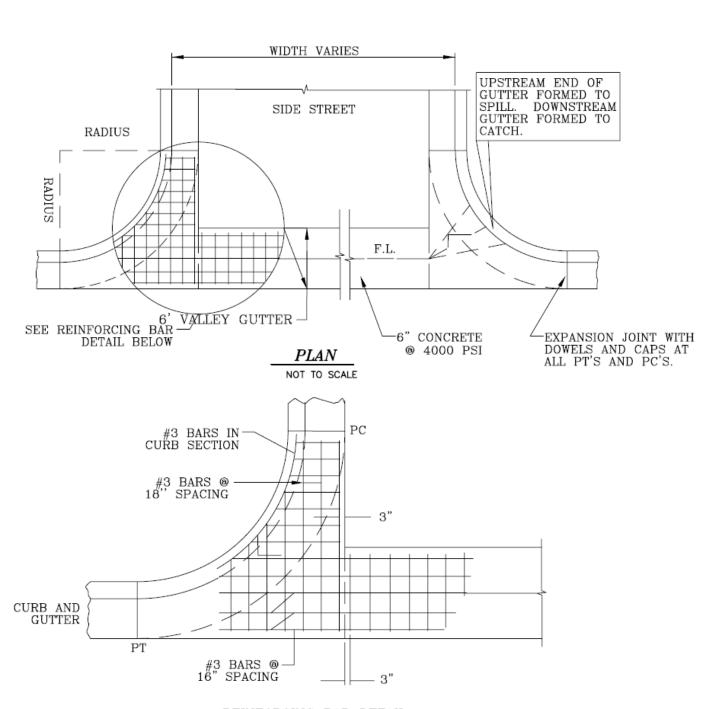
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Standards Manual

Curb & Gutter and Valley Gutter Detail

| Standard Detail: | STR-13 |
|------------------|---------|
| Date Modified: | 7/17/15 |



REINFORCING BAR DETAIL

CONCRETE VALLEY GUTTER

NOT TO SCALE



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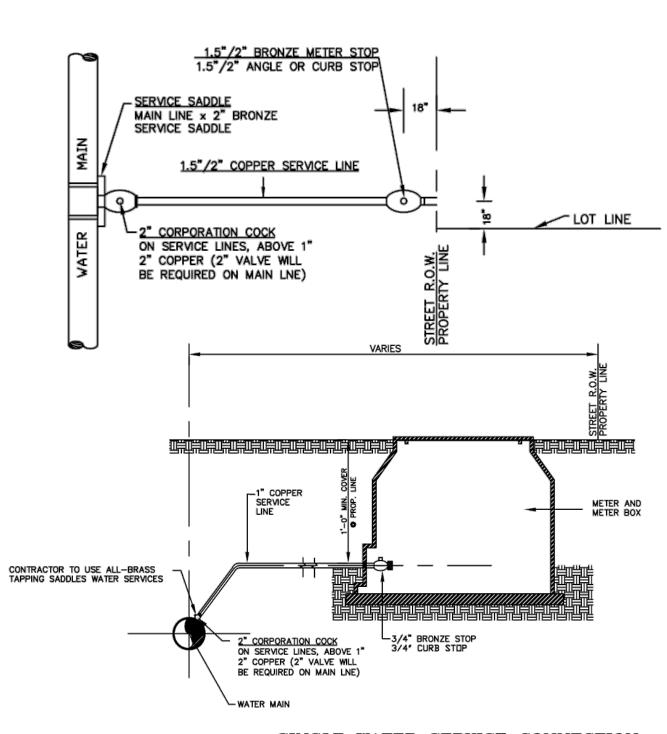
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Standards Manual

Concrete Valley Gutter

| Standard Detail: | STR-14 |
|------------------|---------|
| Date Modified: | 7/17/15 |



SINGLE WATER SERVICE CONNECTION

NOT TO SCALE

NOTE; 1. CASING REQUIRED ON ALL SERVICES EXTENDING ACROSS RIGHT-OF-WAY. 2. FOR METER SIZES SEE SECTION IV.



CITY OF ARANSAS PASS

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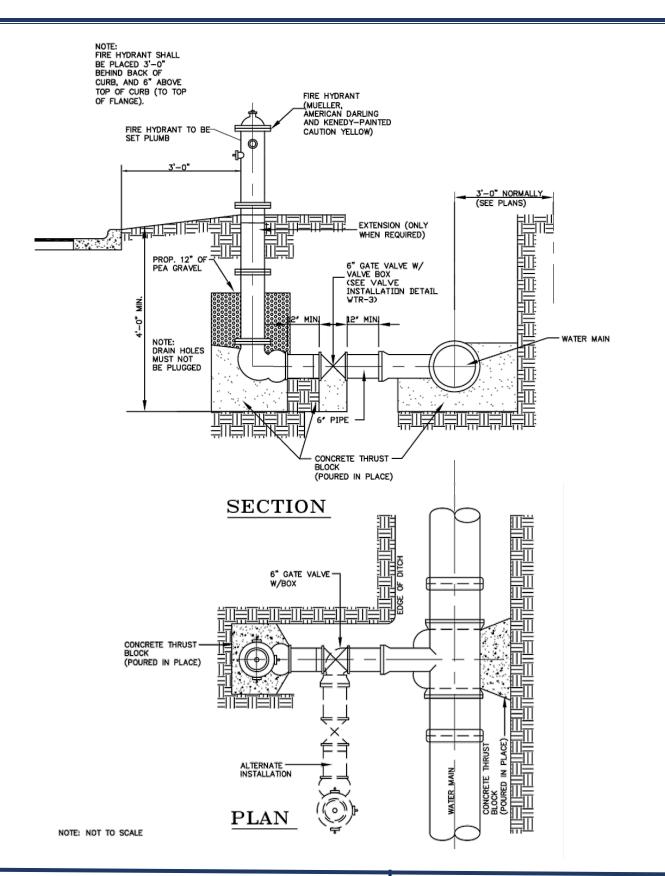
Aransas Pass, TX 78336

Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual

Single Water Service Connection

| Standard Detail: | WTR-1 |
|------------------|---------|
| Date Modified: | 7/17/15 |





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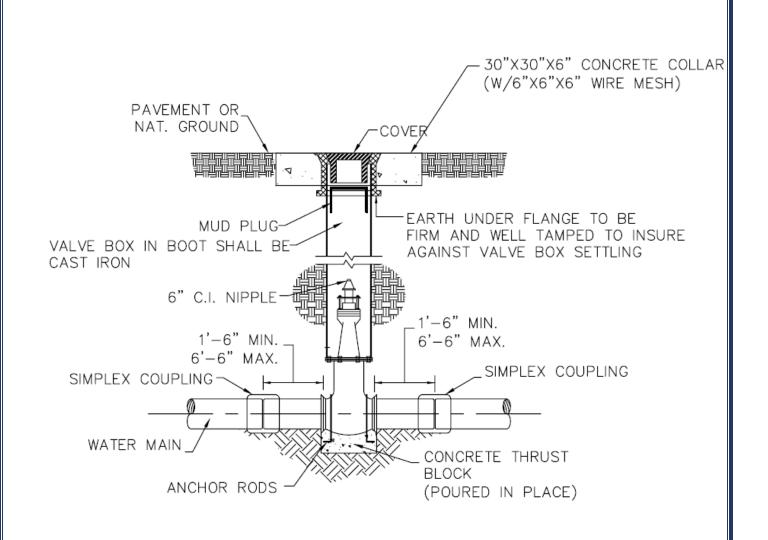
Aransas Pass, TX 78336

Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual

Fire Hydrant Installation Detail

| Standard Detail: | WTR-2 |
|------------------|---------|
| Date Modified: | 7/17/15 |



VALVE & VALVE BOX INSTALLATION

NOT TO SCALE



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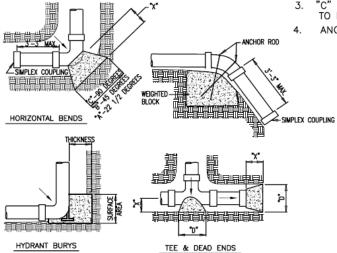
Standards Manual

Valve & Valve Box Installation

| Standard Detail: | WTR-3 |
|------------------|---------|
| Date Modified: | 7/17/15 |

GENERAL NOTES:

- THE LOCATION OF THRUST BLOCKS DEPENDS UPON THE DIRECTION OF THRUST AND TYPE OF FITTINGS.
- THRUST BLOCK CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 P.S.I. AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.
- 3. "C" DIMENSIONS SHALL BE LARGE ENOUGH TO MAKE ANGLE Ø EQUAL TO LARGER THAN 45".
- . ANGLE Ø SHALL BE EQUAL TO OR LARGER THAN 45°.



| | HORIZONTAL BLOCKING TABLE | | | | | | | | |
|------|---------------------------|------------|--------------|---------------|--------------|------------|--------------|------------|--------------|
| DIDE | "x"-* | 22 1/2 DEG | | ES 45 DEGREES | | 90 DEGREES | | TEE & PLUG | |
| SIZE | DIM. FT. | "A" | MIN. AREA | "B" | MIN. AREA | . | MIN. AREA | "D" | MIN. AREA |
| 4" | 1.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.06 | 1.00 | 1.06 |
| 6" | 1.50 | 1.00 | 1.00 | 1.14 | 1.30 | 1.55 | 2.40 | 1.30 | 1.70 |
| 8" | 1.50 | 1.08 | 1.18 | 1.52 | 2.31 | 2.07 | 4.27 | 1.74 | 3.02 |
| 10" | 1.50 | 1.35 | 1.84 | 1.90 | 3.61 | 2.58 | 6.66 | 2.17 | 4.71 |
| 12" | 1.50 | 1.63 | 2.65 | 1.86 | 5.19 | 3.10 | 9.60 | 2.61 | 6.79 |

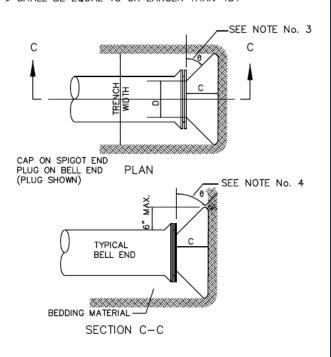


TABLE OF CASING SIZES

| NOMINAL PIPE SIZE | | CASING MINIMUM WALL THICKNESS |
|----------------------|-----|-------------------------------|
| 16" | 24" | 0.25" |

TRUST BLOCK DETAILS

NOT TO SCALE



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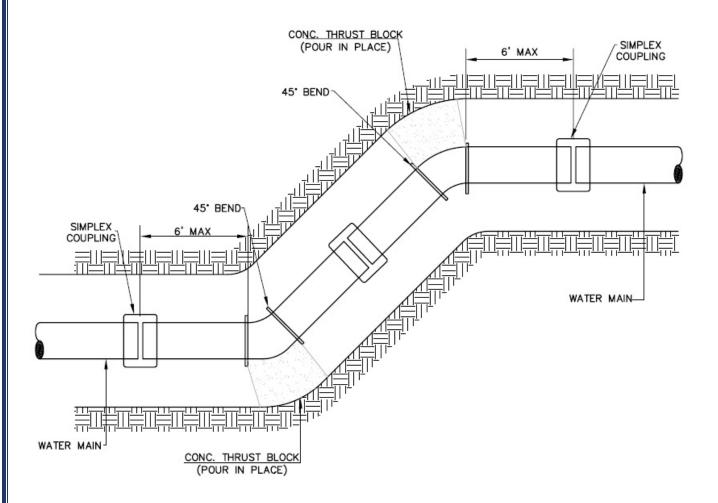
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Standards Manual

Thrust Block Details

| Standard Detail: | WTR-4 |
|------------------|---------|
| Date Modified: | 7/17/15 |



NOTE: NOT TO SCALE

WATERLINE OFFSET DETAIL

NOT TO SCALE



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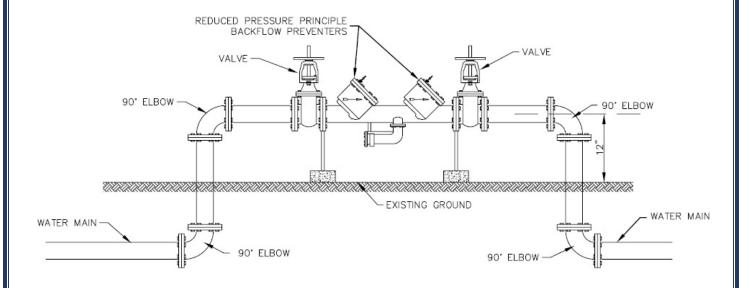
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Standards Manual

Waterline Offset Detail

Standard Detail: WTR-5
Date Modified: 6/25/15



NOTE: ALL THE ABOVE-GROUND PIPE & FITTINGS TO BE DUETILE IRON AWWA C-110-87 OR BETTER.

BACKFLOW PREVENTOR DEVICE

NOT TO SCALE

NOTES:

- 1. PROVIDE WALL SLEEVES AND RESILENT CONNECTORS TO SEAL ANNULUS AROUND PIPE.
- PROVIDE ADDITIONAL REINFORCEMENT AT CONCRETE OPENING.
- 3. COVER TO BE LOCKING TYPE.



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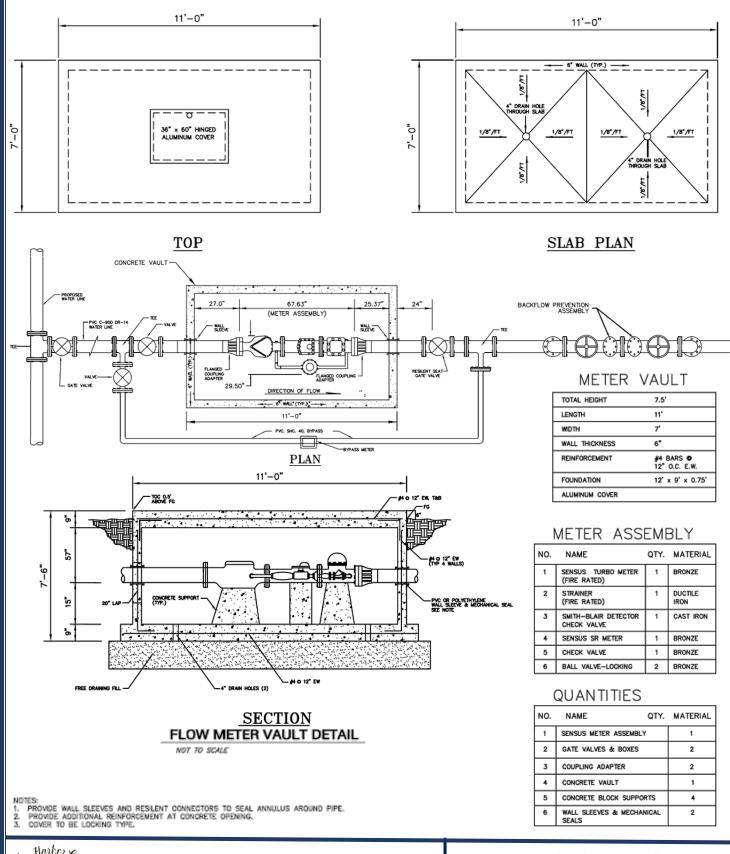
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Backflow Preventor Device

| Standard Detail: | WTR-6 |
|------------------|---------|
| Date Modified: | 6/25/15 |





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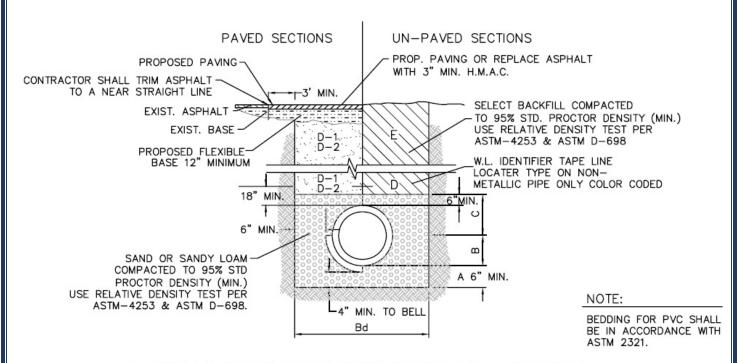
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Standards Manual

Meter/Backflow & Vault

| Standard Detail: | WTR-7 |
|------------------|---------|
| Date Modified: | 6/25/15 |



- A. SAND OR SANDY LOAM BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS=6")
- B. SAND OR SANDY LOAM BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, HAND TAMPED) Bd TRENCH WIDTHS SHALL BE PIPE O.D. + 12" OR IN ACCORDANCE WITH ASTM 2331 FOR PVC PIPE.
- C. SAND OR SANDY LOAM BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)
- D-1. (CITY STREETS, PARKING AREA, SELECT EXCAVATED BACKFILL MATERIAL COMPACTED TO 95% SPD. (8" LIFTS, MECHANICAL COMPACTION)
- D-2. (STATE MAINTAINED ROADWAY) COMPACTED SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- E. SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSITUTE.

TRENCH BEDDING CIRCULAR PIPE (WATER)

NOT TO SCALE



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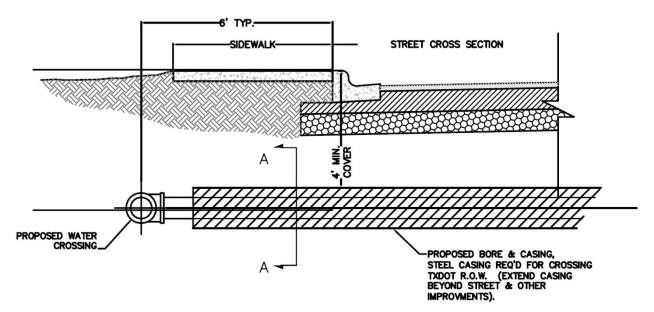
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Standards Manual

Trench Bedding (Water)

Standard Detail: WTR-8

Date Modified: 6/25/15

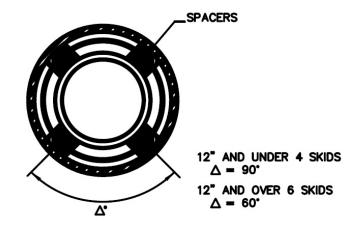


BORE & CASING

TABLE OF CASING SIZES

| NOMINAL PIPE SIZE | CASING SIZE (INSIDE DIA.) | CASING MINIMUM WALL THICKNESS |
|----------------------|------------------------------|-------------------------------|
| 4* | 3"-10" | 0.25° |
| 6" | 10"-12" | 0.25" |
| 8" | 14"-16" | 0.25" |
| 12" | 22" | 0.25" |

CARRIER PIPE - P.V.C. C900 DR-18





NOTE:

WATERLINE TO BE SLOPED DOWN OR UP • CROSSING IF IT CONFLICTS W/ EXISTING SEWER LINES OR DRAINAGE STRUCTURES.

TRENCH BEDDING CIRCULAR PIPE (WATER)

NOT TO SCALE



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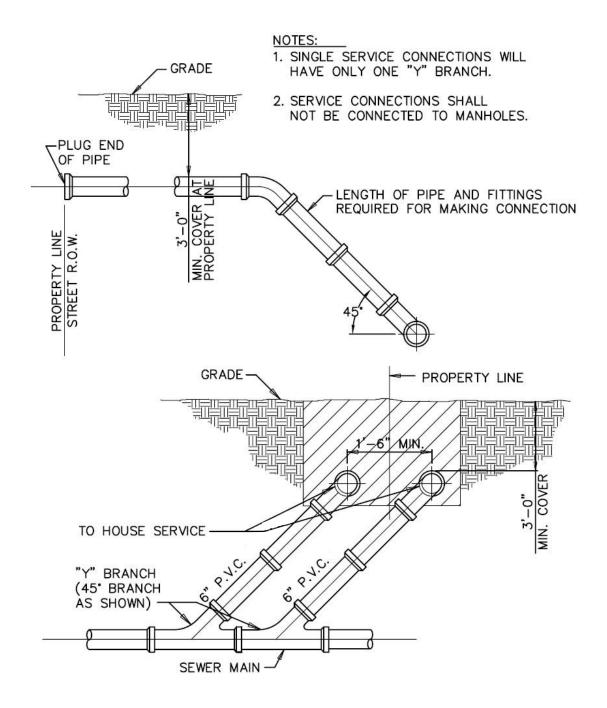
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Standards Manual

Bore & Casing Detail

Standard Detail: WTR-9
Date Modified: 6/25/15



SANITARY SEWER SERVICE CONNECTION

NOT TO SCALE



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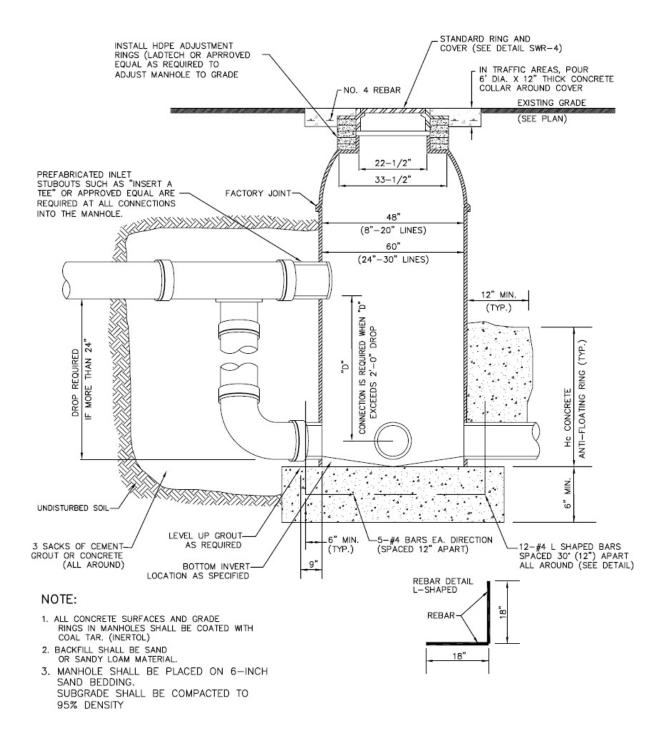
Aransas Pass, TX 78336

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Standards Manual

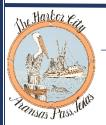
Sanitary Sewer Service Connection

Standard Detail: SWR-1
Date Modified: 6/25/15



FIBERGLASS SANITARY SEWER MANHOLE

NOT TO SCALE



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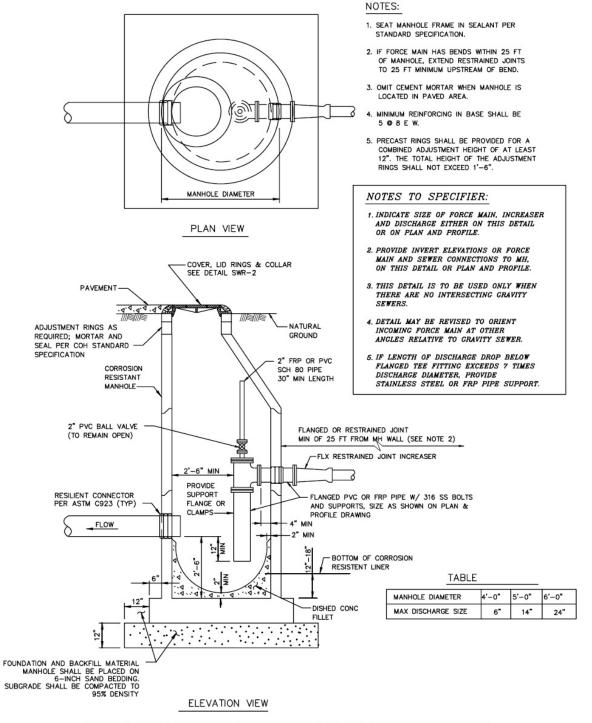
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Standards Manual

Sanitary Sewer Fiberglass Manhole Detail

| Standard Detail: | SWR-2 |
|------------------|---------|
| Date Modified: | 6/25/15 |



SANITARY SEWER CORROSION RESISTANT MANHOLE FOR FORCE MAIN DISCHARGE NOTE: NOT TO SCALE



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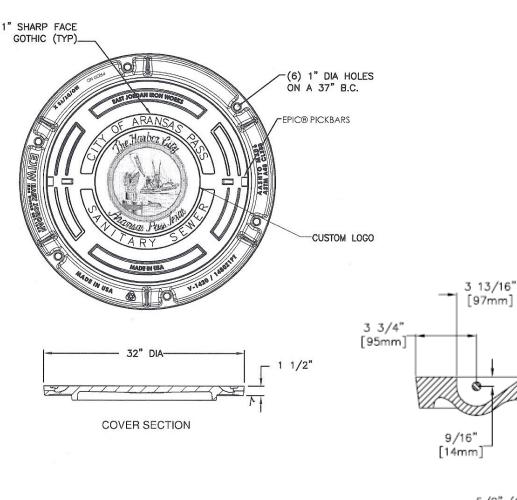
Aransas Pass, TX 78336

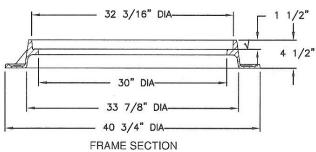
Office: (361) 758-5301 Fax: (361) 758-4854

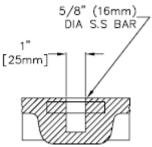
Standards Manual

Sanitary Sewer Corrosion Resistant Manhole For Force Main Discharge

| Standard Detail: | SWR-3 |
|------------------|---------|
| Date Modified: | 6/25/15 |







1 5/8"

[41mm]

PICKBAR DETAILS



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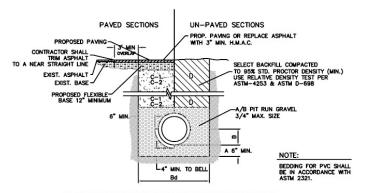
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Standards Manual Sanitary Sewer Lid

Samtary Sewer Lie

Standard Detail: SWR-4

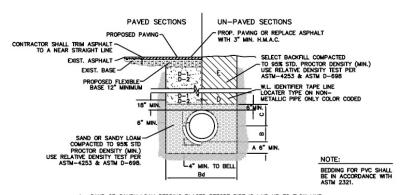
Date Modified: 6/25/15



- A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW OF PIPE (MIN. THICKNESS = 6") - PIT RUN GRAVEL 3/4" MAX. SIZE.
- B. GRAVEL PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO 4" ABOVE TOP OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE
- C. TRENCH WIDTHS SHALL BE BELL O.D. + 12" OR IN ACCORDANCE WITH ASTM 2331 FOR PVC PIPE AND ASTM C12 (LATEST) FOR WITHFIED CLAY PIPE C-1 (CITY STREET, PARKING AREA, DRIVEMYS). SELECT EXCAVATED BACK FILL COMPACTED TO 98X FIP. PROCTOR IN 8" LIFTS, MECHANICAL COMPACTION. C-2 (STATE MAINTAINED ROADWAYS) COMPACTED AND PCEMENT STRUILLED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-688.
- D. SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILM MATERIAL SHALL BE SAND, APPROVED SUBSTITUTE.

TRENCH BEDDING CIRCULAR PIPE (SANITARY SEWER)

NOT TO SCAL



- A. SAND OR SANDY LOAM BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS=6")
- B. SAND OR SANDY LOAM BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, HAND TAMPED) BO TRENCH WIDTHS SHALL BE PIPE 0.D. + 12" OR IN ACCORDANCE WITH ASTIN 2331 FOR PVC PIPE.
- C. SAND OR SANDY LOAM BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)
- D-1. (CITY STREETS, PARKING AREA, SELECT EXCAVATED BACKFILL MATERIAL COMPACTED TO 95% SPD. (8" LIFTS, MECHANICAL COMPACTION)
- D-2. (STATE MAINTAINED ROADWAY) COMPACTED SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- E. SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPONTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNISTABLE. BACKFILING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 99% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-589). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SUBSTITUTE.

TRENCH BEDDING CIRCULAR PIPE (PRESSURE)

NOT TO SCALE



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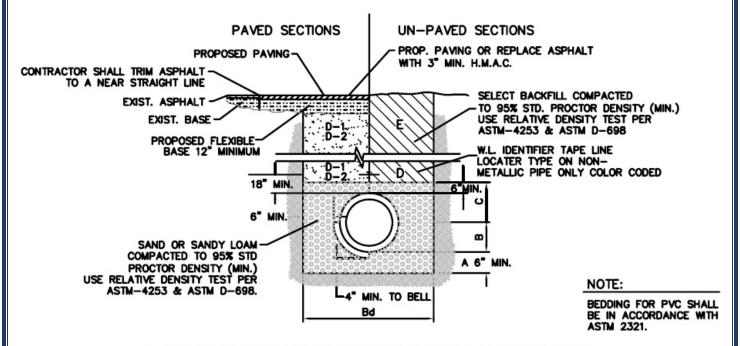
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Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual

Sewer Trench Bedding Detail

Standard Detail: SWR-5
Date Modified: 6/25/15



- A. SAND OR SANDY LOAM BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS=6")
- B. SAND OR SANDY LOAM BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, HAND TAMPED) Bd TRENCH WIDTHS SHALL BE PIPE O.D. + 12" OR IN ACCORDANCE WITH ASTM 2331 FOR PVC PIPE.
- C. SAND OR SANDY LOAM BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)
- D-1. (CITY STREETS, PARKING AREA, SELECT EXCAVATED BACKFILL MATERIAL COMPACTED TO 95% SPD. (8" LIFTS, MECHANICAL COMPACTION)
- D-2. (STATE MAINTAINED ROADWAY) COMPACTED SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- E. SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSITUTE.

TRENCH BEDDING CIRCULAR PIPE (PRESSURE)



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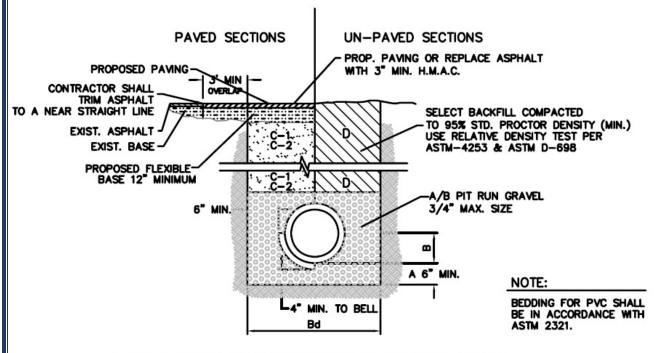
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Standards Manual

Sewer Trench Bedding Detail

Standard Detail: SWR-5-1
Date Modified: 6/25/15



- A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW OF PIPE (MIN. THICKNESS = 6") - PIT RUN GRAVEL 3/4" MAX. SIZE.
- B. GRAVEL PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO 4" ABOVE TOP OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE
- C. TRENCH WIDTHS SHALL BE BELL O.D. + 12" OR IN ACCORDANCE WITH ASTM 2331 FOR PVC PIPE AND ASTM C12 (LATEST) FOR VITRIFIED CLAY PIPE. C-1 (CITY STREET, PARKING AREA, DRIVEWAYS). SELECT EXCAVATED BACK FILL COMPACTED TO 95% STP. PROCTOR IN 8" LIFTS, MECHANICAL COMPACTION. C-2 (STATE MAINTAINED ROADWAYS) COMPACTED SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- D. SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

TRENCH BEDDING CIRCULAR PIPE (SANITARY SEWER)



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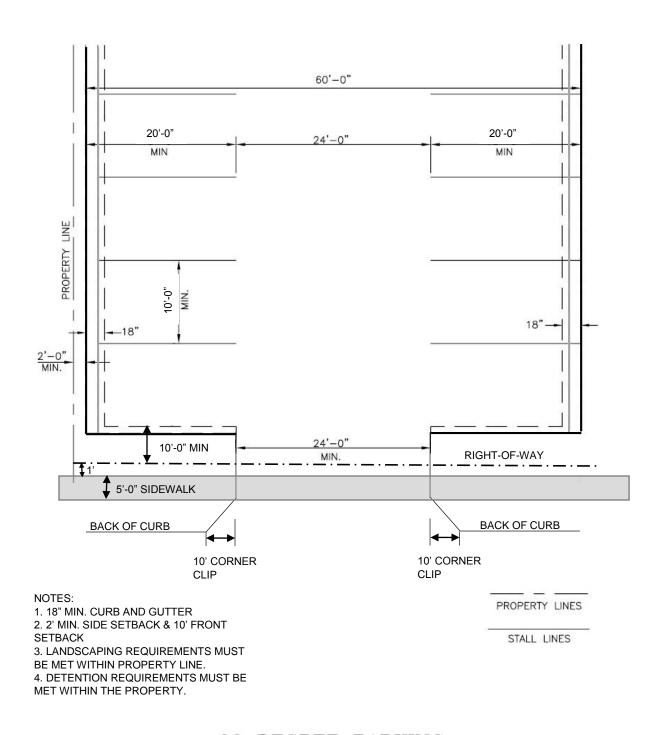
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Standards Manual

Sewer Trench Bedding Detail

Standard Detail: SWR-5-2
Date Modified: 6/25/15



90 DEGREE PARKING

NOT TO SCALE



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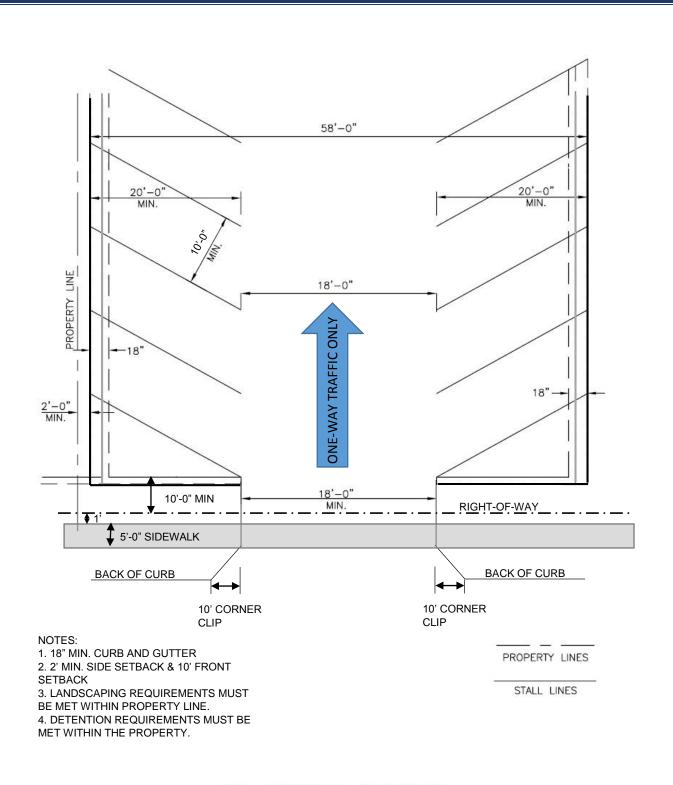
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Standards Manual

90° Degree Parking

Standard Detail: PKG-1
Date Modified: 6/25/15



60 DEGREE PARKING

NOT TO SCALE



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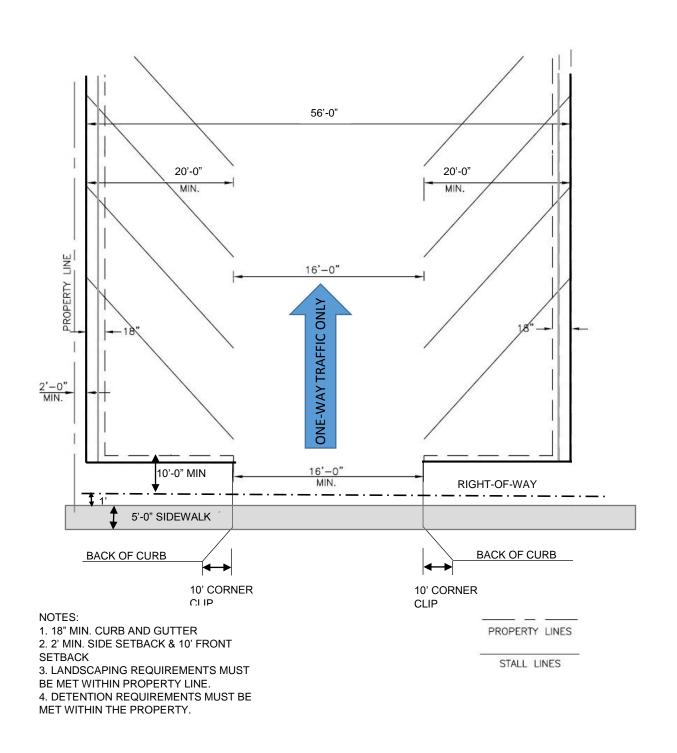
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Standards Manual

60° Degree Parking

Standard Detail: PKG-2
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45 DEGREE PARKING

NOT TO SCALE



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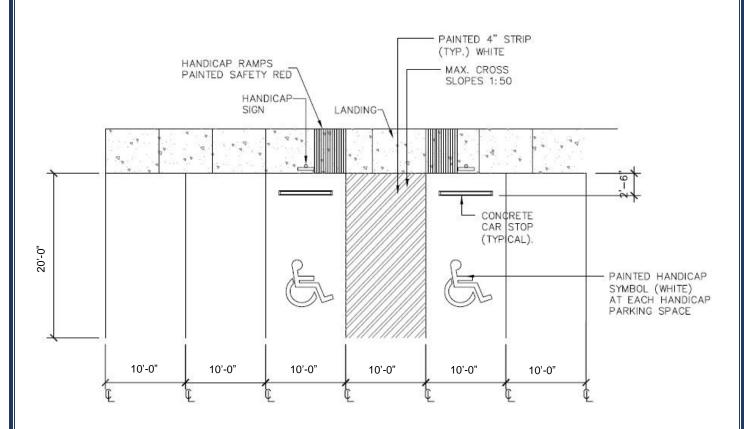
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Standards Manual

45° Degree Parking

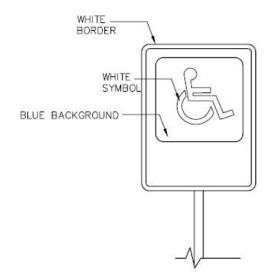
Standard Detail: PKG-3

Date Modified: 6/25/15



TYPICAL DETAIL FOR HANDICAP PARKING

NOTE: NOT TO SCALE





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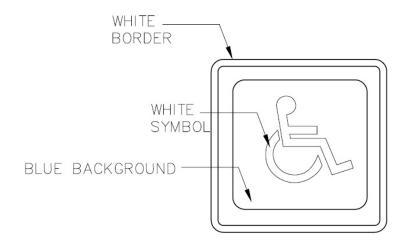
Aransas Pass, TX 78336

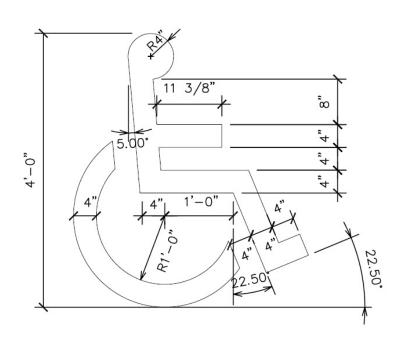
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Standards Manual

Typical Detail For Handicap Parking

| Standard Detail: | PKG-4 |
|------------------|---------|
| Date Modified: | 6/25/15 |





TYPICAL HANDICAP SYMBOL DIMENSIONS

NOTE: NOT TO SCALE



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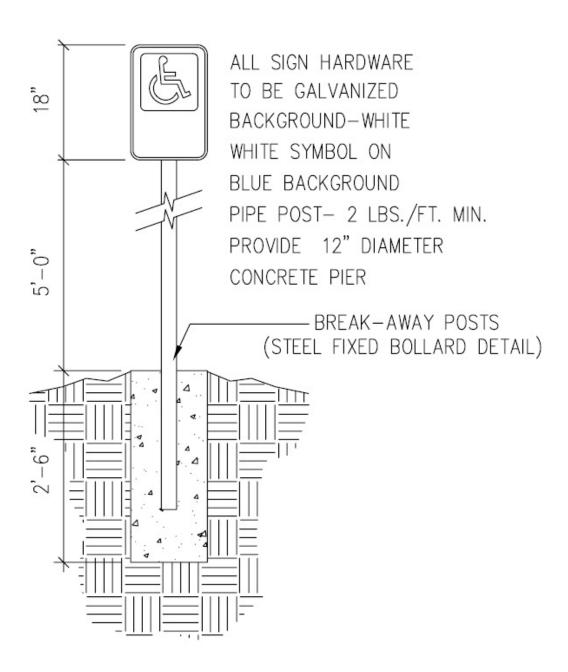
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Standards Manual

Handicap Symbol Dimensions

| Standard Detail: | PKG-5 |
|------------------|---------|
| Date Modified: | 6/25/15 |



HANDICAP PARKING SIGN INSTALLATION

NOTE: NOT TO SCALE



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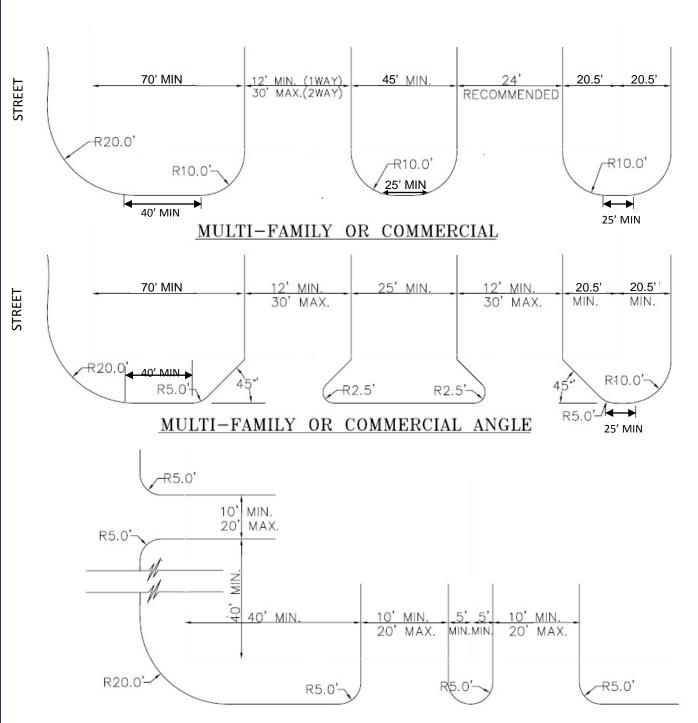
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Standards Manual

Handicap Parking Sign Installation

| Standard Detail: | PKG-6 |
|------------------|---------|
| Date Modified: | 6/24/15 |



SINGLE AND TWO FAMILY RESIDENTIAL

NOTE: NOT TO SCALE



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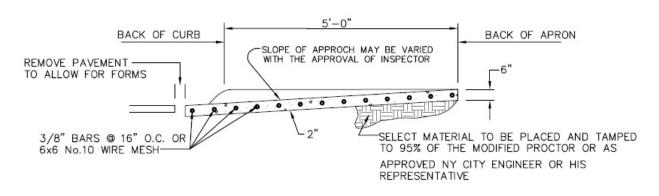
Aransas Pass, TX 78336

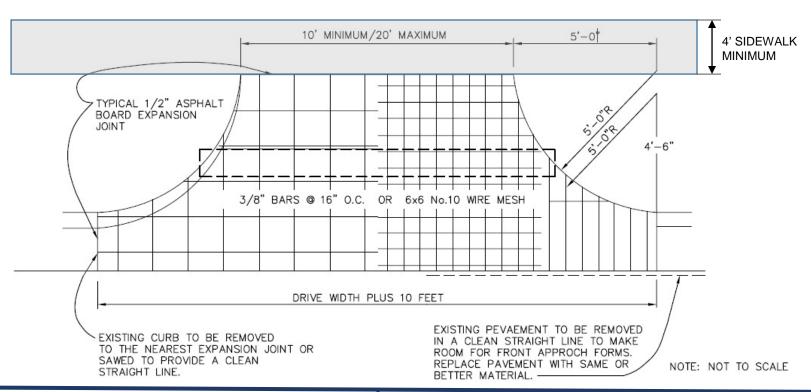
Office: (361) 758-5301 Fax: (361) 758-4854

Standards Manual

Typical Driveway Reinforcement Detail Single Family Driveways

| Standard Detail: | DWY-1 |
|------------------|---------|
| Date Modified: | 6/24/15 |







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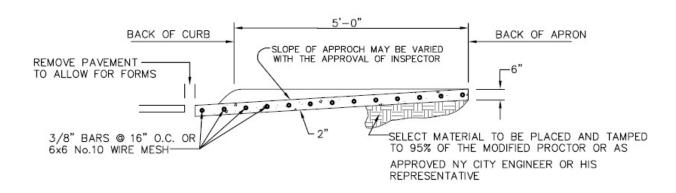
Aransas Pass, TX 78336

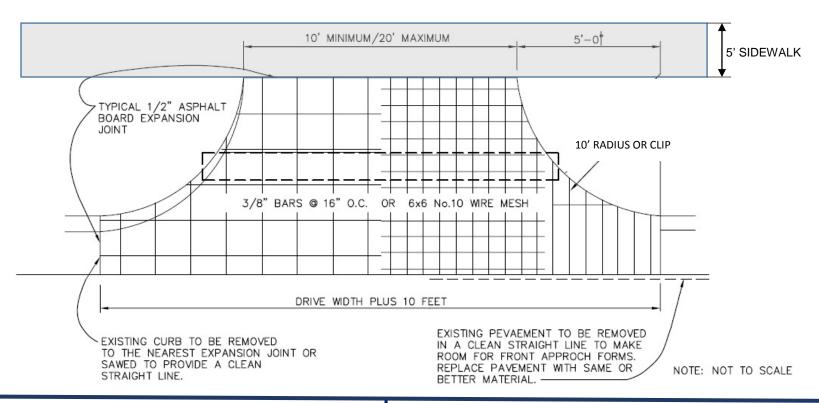
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Standards Manual

Typical Driveway Reinforcement Detail Single Family Driveways

| Standard Detail: | DWY-2 |
|------------------|---------|
| Date Modified: | 6/24/15 |







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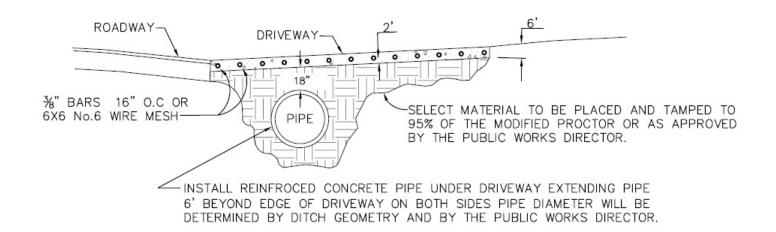
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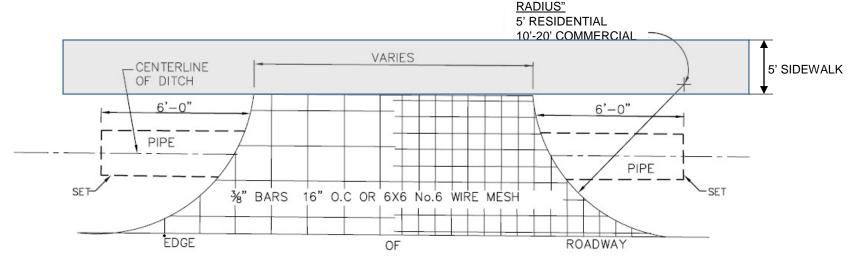
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Standards Manual

Typical Driveway Reinforcement Detail Multi-Family & Commercial Drives

| Standard Detail: | DWY-3 |
|------------------|---------|
| Date Modified: | 6/24/15 |





NOTE: NOT TO SCALE



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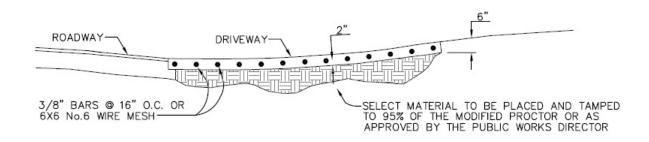
Office: (361) 758-5301 Fax: (361) 758-4854

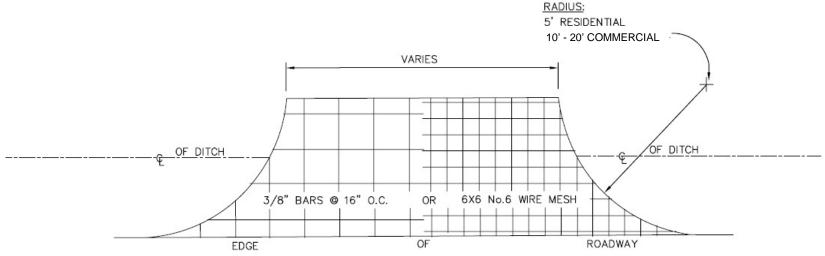
Standards Manual

Typical Driveway Reinforcement Detail Non-Curb & Gutter
Streets With Deep Ditch Crossing

| Standard Detail: | DWY-4 |
|------------------|---------|
| Date Modified: | 6/24/15 |

DRIVEWAY TO CONFORM TO DITCH CROSS-SECTION IF DEPTH IS NOT PROHIBITIVE





NOTE: NOT TO SCALE



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Standards Manual

Typical Driveway Reinforcement Detail Non-Curb & Gutter
Streets With Shallow Ditch Crossing

| Standard Detail: | DWY-5 |
|------------------|---------|
| Date Modified: | 6/24/15 |